STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

| The Biote Center (S | chnolog | y Systems Branch of the Scientific and Technical Information tected errors when processing the following computer readable |
|------------------------|---------|----------------------------------------------------------------------------------------------------------------------------|
| form: | 1 | |

| Application Serial Number: | 10/543,033 |
|----------------------------|------------|
| Source: | PGIO |
| Date Processed by STIC: | 7/28/05 |

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual - ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

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| | Revised 01/24/05 | | 111 | 1 | |
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| | taget to the transfer | T I | ाच्डि≔ास् | ***2**** | |
| / | To Design Address The April 1997 (The Content State State Content State Stat | and the second s | The state of the s | The second secon | re or alternating time |
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Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION SERIAL NUMBER: 10/543, 033 | | | | | | |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE | | | | | | | |
| 1Wrapped Nucleics Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping." | | | | | | |
| 2Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. | | | | | | |
| 3Misaligned Amino Numbering | The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead. | | | | | | |
| 4Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. | | | | | | |
| 5Variable Length | Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. | | | | | | |
| 6PatentIn 2.0 "bug" | A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. | | | | | | |
| 7Skipped Sequences (OLD RULES) | Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped | | | | | | |
| | Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences. | | | | | | |
| 8Skipped Sequences (NEW RULES) | Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000 | | | | | | |
| 9Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. | | | | | | |
| Invalid <213> Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence | | | | | | |
| Use of <220> | Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules) | | | | | | |
| "bug" | Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. | | | | | | |
| 13 Misuse of n/Xaa | "n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u> | | | | | | |



PCT

```
PATENT APPLICATION: US/10/543,033
                                                              TIME: 17:04:05
                     Input Set : D:\seq listing 10589-012-999 (as filed).txt
                     Output Set: N:\CRF4\07282005\J543033.raw
      3 <110> APPLICANT: Cao, Liangxian
      4 .
              Trifillis, Panayiota
      6 <120> TITLE OF INVENTION: METHODS FOR IDENTIFYING COMPOUNDS THAT MODULATE UNTRANSLATED
              REGION-DEPENDENT GENE EXPRESSION AND METHODS OF USING SAME
                                                                 pr 1,3,5-8
      9 <130> FILE REFERENCE: 10589-012-999
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/543,033
C--> 12 <141> CURRENT FILING DATE: 2005-07-21
     14 <150> PRIOR APPLICATION NUMBER: PCT/US2004/001643
     15 <151> PRIOR FILING DATE: 2004-01-21
     17 <150> PRIOR APPLICATION NUMBER: 60/441,637
     18 <151> PRIOR FILING DATE: 2003-01-21
     20 <160> NUMBER OF SEQ ID NOS: 94
                                                                    Does Not Comply
     22 <170> SOFTWARE: PatentIn version 3.2
                                                                Corrected Diskette Neede
     24 <210> SEO ID NO: 1
     25 <211> LENGTH: 14
     26 <212> TYPE: DNA
     27 <213> ORGANISM: Artificial Sequence
     29-4220> FEATURE:
    30 <223> OTHER INFORMATION: Description of Artificial Sequence: one motif of G-quartet
element
    33 <220> FEATURE:
                                                                 ( see ten 11: on Evor
Sunnay Steet)
     34 <221> NAME/KEY: misc feature
     35 <222> LOCATION: 3, 7, 8, 11
     36 <223 > OTHER INFORMATION: n = a, t, c, or g
     38 <220> FEATURE:
     39 <221> NAME/KEY: misc feature
     40 <222> LOCATION: (7)..(8)
     41 <223> OTHER INFORMATION: This represents one form of the sequence as described, other
forms
    42
              described may have up to five nucleotides in this variable region
     44 <400> SEQUENCE: 1
W--> 45 ggntggnngg ntgg
                                                                               14
     48 <210> SEQ ID NO: 2
     49 <211> LENGTH: 14
     50 <212> TYPE: DNA
     51 <213> ORGANISM: Artificial Sequence
     53 <220> FEATURE:
    54 <223> OTHER INFORMATION: Description of Artificial Sequence one motif of G-quartet
element
    57 <220> FEATURE:
    58 <221> NAME/KEY: misc_feature
    59 <222> LOCATION: 3, 4, 7, 8, 11, 12
    60 <223> OTHER INFORMATION: n = a, t, g or c
```

RAW SEQUENCE LISTING

62 <220> FEATURE:

63 <221> NAME/KEY: misc_feature 64 <222> LOCATION: (2)..(12)

TIME: 17:04:05

```
Input Set : D:\seq listing 10589-012-999 (as filed).txt
                     Output Set: N:\CRF4\07282005\J543033.raw
     65 <223> OTHER INFORMATION: This represents one form of the sequence as described, other
forms
              described have longer variable regions, typical is 2 - 10
     66
     67
              nucleotides
     69 <400> SEQUENCE: 2
                                                                                14
W--> 70 ggnnggnngg nngg
     73 <210> SEQ ID NO: 3
     74 <211> LENGTH: 14
     75 <212> TYPE: DNA
     76 <213> ORGANISM: Artificial Sequence
     78 <220> FEATURE:
                                                                      general formula of G-
     79 <223 → OTHER INFORMATION: Description of Artificial Sequence (
quartet elément
     82 <220> FEATURE:
     83 <221> NAME/KEY: misc_feature
     84 <222> LOCATION: 3, 4, 7, 8, 11, 12
     85 <223> OTHER INFORMATION: n = a, t, g, or c
     87 <220> FEATURE:
     88 <221> NAME/KEY: misc_feature
     89 <222> LOCATION: (2)..(12)
     90 <223> OTHER INFORMATION: This represents one form of the sequence as described, other
forms
              described have longer variable regions, typical is 2 - 10
     91
     92
              nucleotides
     94 <400> SEQUENCE: 3
                                                                                14
W--> 95 ggnnggnngg nngg
     98 <210> SEQ ID NO: 4
     99 <211> LENGTH: 19
     100 <212> TYPE: RNA
     101 <213> ORGANISM: Artificial Sequence
     103 <220> FEATURE:
     104 <223> OTHER INFORMATION: Description of Artificial Sequence: one subunit of 15-LOX-
DICE
     106 <400> SEQUENCE: 4
                                                                                 19
     107 ccccrcccuc uuccccaag
     110 <210> SEQ ID NO: 5
     111 <211> LENGTH: 152
     112 <212> TYPE: DNA
     113 <213> ORGANISM: Homo sapiens
     115 <400> SEQUENCE: 5
     116 gcagaggacc agetaagagg gagagaagca actacagacc ccccctgaaa acaaccctca
                                                                                120
     118 gacgccacat cccctgacaa gctgccaggc aggttctctt cctctcacat actgacccac
                                                                                152
     120 ggctccaccc tctctcccct ggaaaggaca cc
     123 <210> SEQ ID NO: 6
     124 <211> LENGTH: 792
     125 <212> TYPE: DNA
     126 <213> ORGANISM: Homo sapiens
     128 <400> SEOUENCE: 6
     129 tgaggaggac gaacatccaa cetteecaaa egeeteeeet geeccaatce etttattace
                                                                                 60
     131 ccctccttca gacaccctca acctcttctg gctcaaaaag agaattgggg gcttagggtc
                                                                                120
     133 ggaacccaag cttagaactt taagcaacaa gaccaccact tcgaaacctg ggattcagga
                                                                                180
     135 atgtgtggcc tgcacagtga attgctggca accactaaga attcaaactg gggcctccag
                                                                                240
     137 aactcactgg ggcctacagc tttgatccct gacatctgga atctggagac cagggagcct
                                                                                300
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/543,033

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RAW SEQUENCE LISTING
                                                             DATE: 07/28/2005
                    PATENT APPLICATION: US/10/543,033
                                                             TIME: 17:04:05
                     Input Set : D:\seq listing 10589-012-999 (as filed).txt
                    Output Set: N:\CRF4\07282005\J543033.raw
    139 ttggttctgg ccagaatgct gcaggacttg agaagacctc acctagaaat tgacacaagt
                                                                               360
                                                                               420
    141 ggaccttagg ccttcctctc tccaqatgtt tccagacttc cttgagacac ggagcccagc
    143 cetececaty gagecagete cetetattta tgtttgeact tgtgattatt tattatttat
                                                                               480
    145 ttattattta tttatttaca gatgaatgta tttatttggg agaccggggt atcctggggg
                                                                               540
                                                                               600
    147 acccaatqta qqaqctqcct tgqctcaqac atqttttccq tgaaaaacgga gctgaacaat
                                                                               660
    149 aggctqttcc catqtaqccc cctqqcctct qtqccttctt ttgattatgt tttttaaaat
    151 atttatctga ttaagttgtc taaacaatgc tgatttggtg accaactgtc actcattgct
                                                                               720
    153 gageetetge teeceagggg agttgtgtet gtaategeee tactatteag tggegagaaa
                                                                               780
                                                                               792
    155 taaagtttgc tt
    158 <210> SEQ ID NO: 7
    159 <211> LENGTH: 21
    160 <212> TYPE: RNA
    161 <213> ORGANISM: Artificial Sequence
    163 <220> FEATURE:
    164 <223> OTHER INFORMATION: Description of Artificial Sequence: Group I AU-Rich element
(ARE)
    165
              cluster of 3'untranslated region
    167 <400> SEQUENCE: 7
                                                                                21
    168 auuuauuuau uuauuuauuu a
    171 <210> SEQ ID NO: 8
    172 <211> LENGTH: 40
    173 <212> TYPE: DNA
    174 <213> ORGANISM: Homo sapiens
    176 <400> SEQUENCE: 8
    177 kctggaggat gtggctgcag agcctgctgc tcttgggcac
                                                                                40
    180 <210> SEQ ID NO: 9
    181 <211> LENGTH: 289
    182 <212> TYPE: DNA
    183 <213> ORGANISM: Homo sapiens
    185 <400> SEQUENCE: 9
    186 gccggggagc tgctctctca tgaaacaaga gctagaaact caggatggtc atcttggagg
                                                                                60
                                                                               120
    188 gaccaagggg tgggccacag ccatggtggg agtggcctgg acctgccctg ggccacactg
    190 accetgatac aggeatggea gaagaatggg aatattttat actgacagaa atcagtaata
                                                                               180
    192 tttatatatt tatattttta aaatatttat ttatttattt atttaagttc atattccata
                                                                               240
    194 tttattcaag atgttttacc gtaataatta ttattaaaaa tatgcttct
                                                                               289
    197 <210> SEQ ID NO: 10
    198 <211> LENGTH: 21
    199 <212> TYPE: RNA
    200 <213> ORGANISM: Artificial Sequence
    202 <220> FEATURE:
    203 <223> OTHER INFORMATION: Description of Artificial Sequence: Group I AU-Rich element
(ARE)
              cluster of 3'untranslated region
    204
    206 <400> SEQUENCE: 10
    207 auuuauuuau uuauuuauuu a
                                                                                21
    210 <210> SEO ID NO: 11
    211 <211> LENGTH: 47
    212 <212> TYPE: DNA
    213 <213> ORGANISM: Homo sapiens
    215 <400> SEQUENCE: 11
    216 atcactctct ttaatcacta ctcacattaa cctcaactcc tgccaca
                                                                                47
```

TIME: 17:04:05

Input Set : D:\seq listing 10589-012-999 (as filed).txt Output Set: N:\CRF4\07282005\J543033.raw 219 <210> SEQ ID NO: 12 220 <211> LENGTH: 307 221 <212> TYPE: DNA 222 <213> ORGANISM: Homo sapiens 224 <400> SEQUENCE: 12 225 taattaaqtq cttcccactt aaaacatatc aqqccttcta tttatttatt taaatattta 60 227 aattttatat ttattgttga atgtatggtt gctacctatt gtaactatta ttcttaatct 120 229 taaaactata aatatggatc ttttatgatt ctttttgtaa gccctagggg ctctaaaaatg 180 231 gtttacctta tttatcccaa aaatatttat tattatgttg aatgttaaat atagtatcta 240 233 tqtaqattqq ttaqtaaaac tatttaataa atttgataaa tataaaaaaa aaaaacaaaa 300 235 aaaaaaa 307 238 <210> SEQ ID NO: 13 239 <211> LENGTH: 15 240 <212> TYPE (RNA) 241 <213> ORGANISM: Artificial Sequence 243 <220> FEATURE: 244 <223> OTHER INFORMATION: Description of Artificial Sequence: Group III AU-Rich element (ARE) cluster of 3'untranslated region 245 248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (1)..(15)
251 <223> OTHER INFORMATION: n = a, t g or c
253 <400> SEQUENCE: 13
254 nauuaauua uuaan
257 <210> SEQ ID NO: 14
258 <211> LENGTH: 62
259 <212> MUDD TOTAL W--> 254 nauuuauuua uuuan 259 <212> TYPE: DNA 260 <213> ORGANISM: Homo sapiens 262 <400> SEQUENCE: 14 263 ttctgccctc gagcccaccg ggaacgaaag agaagctcta tctcgcctcc aggagcccag 60 62 265 ct 268 <210> SEO ID NO: 15 269 <211> LENGTH: 427 270 <212> TYPE: DNA 271 <213> ORGANISM: Homo sapiens 273 <400> SEQUENCE: 15 60 274 tagcatgggc acctcagatt gttgttgtta atgggcattc cttcttctgg tcagaaacct 276 gtccactggg cacagaactt atgttgttct ctatggagaa ctaaaagtat gagcgttagg 120 278 acactatttt aattatttt aatttattaa tatttaaata tgtgaagctg agttaattta 180 280 tgtaagtcat atttatattt ttaagaagta ccacttgaaa cattttatgt attagttttg 282 aaataataat ggaaagtggc tatgcagttt gaatatcctt tgtttcagag ccagatcatt 300 360 284 tcttqqaaaq tqtaqqctta cctcaaataa atgqctaact tatacatatt tttaaagaaa 286 tatttatatt gtatttatat aatgtataaa tggtttttat accaataaat ggcattttaa 420 427 288 aaaattc 291 <210> SEQ ID NO: 16; 292 <211> LENGTH 15 293 <212> TYPE (RNA) 294 <213> ORGANISM: Artificial Sequence 296 <220> FEATURE:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/543,033

TIME: 17:04:05

Input Set : D:\seq listing 10589-012-999 (as filed).txt Output Set: N:\CRF4\07282005\J543033.raw 297 <223> OTHER INFORMATION: Description of Artificial Sequence: Group III AU-Rich element (ARE) 298 cluster of 3'untranslated region 303 <222> LOCATION: (1)..(15)
304 <223> OTHER INFORMATION: n = a, (t), g or c
306 <400> SEQUENCE: 16
307 nauuuauuua uuuan
310 <210> SEQ ID NO: 17
311 <211> LENGTH: 701
312 <212> TYPE: DNA
313 <213> ORGANISM: Homo saniena 15 W--> 307 nauuuauuua uuuan 315 <400> SEQUENCE: 17 60 316 aagageteea gagagaagte gaggaag'aga gagaeggggt cagagagage gegegggegt 120 318 gcgagcagcg aaagcgacag gggcaaagtg agtgacctgc ttttgggggt gaccgccgga 320 gegeggegtg ageceteece ettgggatee egeagetgae eagtegeget gaeggaeaga 180 322 cagacagaca cogococcag coccagttac cacetectee coggooggeg goggacagtg 240 300 326 gtcggagetc gcggcgtcgc actgaaactt ttcgtccaac ttctgggctg ttctcgcttc 360 420 328 ggaggagccg tggtccgcgc gggggaagcc gagccgagcg gagccgcgag aagtgctagc 480 540 332 agggggccgc agtggcgact cggcgctcgg aagccgggct catggacggg tgaggcggcg 600 334 gtqtqcqcaq acagtgctcc aqcqcqcqcq ctccccagcc ctqqcccggc ctcgggccgg 336 gaggaagagt agctcgccga ggcgccgagg agagcgggcc gccccacagc ccgagccgga 660 338 gagggacgcg agccgcgcgc cccggtcggg cctccgaaac c 701 341 <210> SEQ ID NO: 18 342 <211> LENGTH: 1892 343 <212> TYPE: DNA 344 <213> ORGANISM: Homo sapiens 346 <400> SEQUENCE: 18 347 tgagccgggc aggaggaagg agcctccctc agggttttcgg gaaccagatc tctctccagg 60 349 aaagactgat acagaacgat cgatacagaa accacgctgc cgccaccaca ccatcaccat 120 351 cgacagaaca gtccttaatc cagaaacctg aaatgaagga agaggagact ctgcgcagag 180 240 353 cactttgggt ccggagggcg agactccggc ggaagcattc ccgggcgggt gacccagcac 355 ggtccctctt ggaattggat tcgccatttt atttttcttg ctgctaaatc accgagcccg 300 357 gaagattaga gagttttatt tetgggatte etgtagaeae acceaeceae atacatacat 360 359 ttatatatat atatattata tatatataaa aataaatatc tctattttat atatataaaa 420 361 tatatatatt ctttttttaa attaacagtg ctaatgttat tggtgtcttc actggatgta 480 363 tttgactgct gtggacttga gttgggaggg gaatgttccc actcagatcc tgacagggaa 540 365 gaggaggaga tgagagactc tggcatgatc tttttttttgt cccacttggt ggggccaggg 600 367 teeteteece tgeecaagaa tgtgeaagge cagggeatgg gggeaaatat gacceagttt 660 720 369 tgggaacacc gacaaaccca gccctggcgc tgagcctctc taccccaggt cagacggaca 371 gaaagacaaa tcacaggttc cgggatgagg acaccggctc tgaccaggag tttggggagc 780 373 ttcaggacat tgctgtgctt tggggattcc ctccacatgc tgcacgcgca tctcgccccc 840 375 aggggcactg cctggaagat tcaggagcct gggcggcctt cgcttactct cacctgcttc 900

377 tgagttgccc aggaggccac tggcagatgt cccggcgaag agaagagaca cattgttgga

379 agaagcagcc catgacagcg ccccttcctg ggactcgccc tcatcctctt cctgctcccc

381 ttcctggggt gcagcctaaa aggacctatg tcctcacacc attgaaacca ctagttctgt

383 ccccccagga aacctggttg tgtgtgtgtg agtggttgac cttcctccat cccctggtcc

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/543,033

see p. 7

960

1020

1080

1140

<210> 40 <211> 751 DNA <212> <213> Homo sapiens

(734) "+" is at location 739 <220> <221> misc feature <222> (535). ((739) $\langle 223 \rangle$ n = a, t, q or c

<400> 40 taaqcaqqcc tccaacqccc ctgtggccaa ctgcaaaaaa agcctccaag ggtttcgact 60 ggtccagctc tgacatccct tcctggaaac agcatgaata aaacactcat cccatgggtc 120 caaattaata tgattctgct cccccttct ccttttagac atggttgtgg gtctggaggg 180 agacgtgggt ccaaggtcct catcccatcc tccctctgcc aggcactatg tgtctggggc 240 ttcgatcctt gggtgcaggc agggctggga cacgcggctt ccctcccagt ccctgccttg 300 qcaccqtcac agatqccaag caggcagcac ttagggatct cccagctggg ttagggcagg 360 qcctqqaaat qtqcattttq cagaaacttt tqaqqqtcqt tqcaaqactq tqtaqcaqqc 420 ctaccaqqtc cctttcatct tqaqaqqqac atqqcccctt gttttctqca gcttccacgc 480 ctctqcactc cctqcccctq qcaaqtqctc ccatcqcccc cggtqcccac catqnagctc 540 cccgcacctg actccccca catccaaggg cagccctgga accagtgggc tagttccttg 600 aaggaagccc cactcattcc tattaatccc tcagaattcc cggggggagc cttccctcct 660 gaaccttggt aaaaaatggg gaacgagaaa aacccccgct tggagctgtg cgtttccagc 720 ccctacttga gagnettttt tttgggggcc g

su p.8

751

<210> 88
<211> 22
<212> DNA
<213> Artificial equence
<220>
<223> Description of Artificial Sequence: PCR primer (Sense/BglII)

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/28/2005 PATENT APPLICATION: US/10/543,033 TIME: 17:04:06

Input Set : D:\seq listing 10589-012-999 (as filed).txt

Output Set: N:\CRF4\07282005\J543033.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 3,7,8,11 Seq#:2; N Pos. 3,4,7,8,11,12 Seq#:3; N Pos. 3,4,7,8,11,12 Seq#:13; N Pos. 1,15 Seq#:16; N Pos. 1,15 Seq#:20; N Pos. 1,15 Seq#:33; N Pos. 409,444 Seq#:40; N Pos. 535,734 VERIFICATION SUMMARY DATE: 07/28/2005
PATENT APPLICATION: US/10/543,033 TIME: 17:04:06

Input Set : D:\seq listing 10589-012-999 (as filed).txt

Output Set: N:\CRF4\07282005\J543033.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:45 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:360
M:341 Repeated in SeqNo=33
L:1289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:480
M:341 Repeated in SeqNo=40
L:2695 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:88

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